ABSTRACT OF THE DISCLOSURE

A multistatic detection device for measuring a distance to an object includes a transmitter and a receiver, each having a high-frequency oscillator and a pulse generator. The pulse generators can be supplied with synchronisation signals emitted by signals generators, the synchronisation signals being transmitted by a data bus common to the transmitter and the receiver. The relation of the deterministic phases of high-frequency signals can be produced by the high-frequency oscillator. The method includes feeding two synchronisation signals to the transmitter and the receiver by the common data bus, the transmitter signal is transmitted towards an object, the signal passing through the receiver and contained in the data bus being mixed with a reception signal reflected by the object, thereby producing a measuring signal thereby making it possible to compare the phases of clock signals.